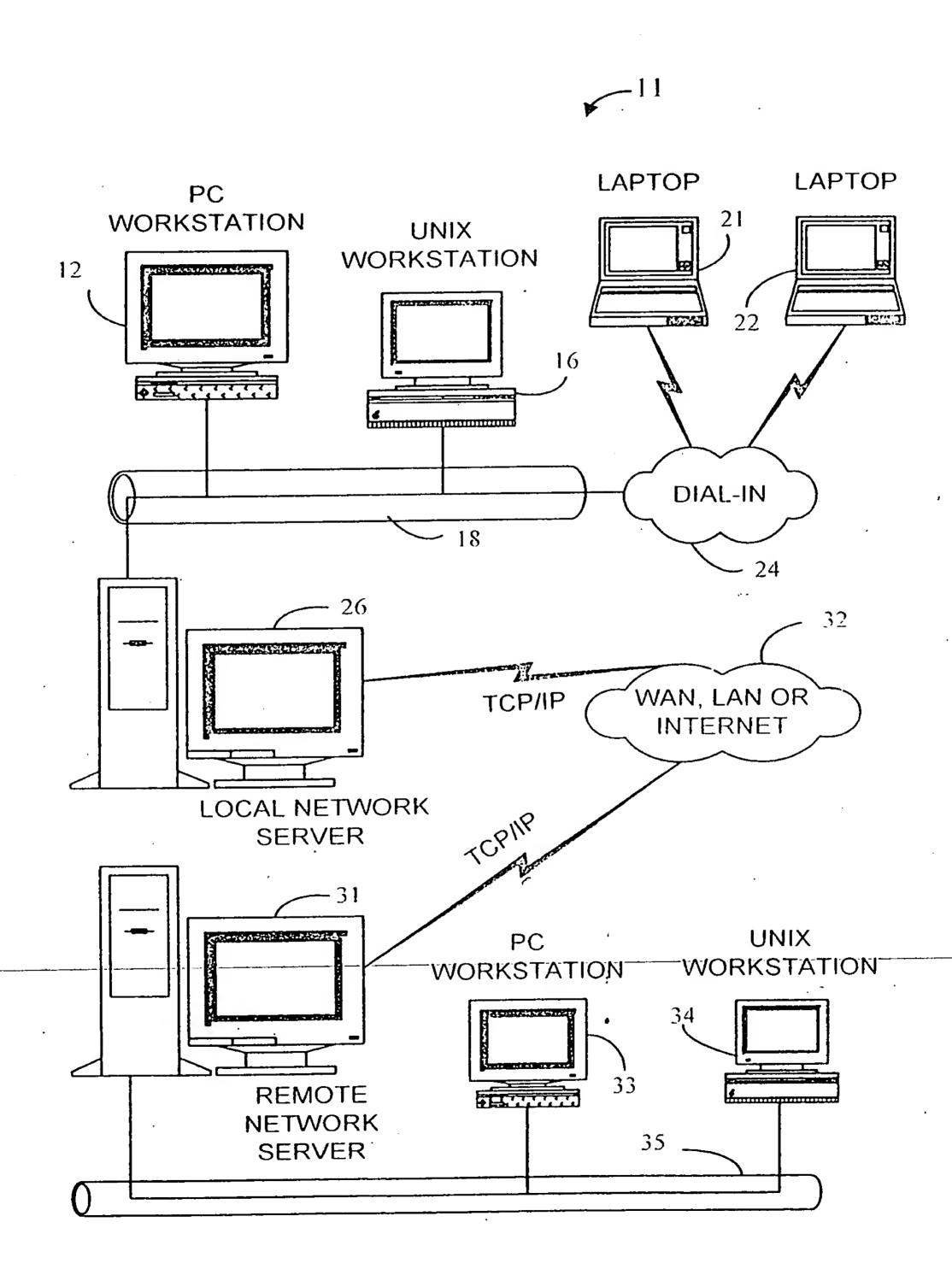
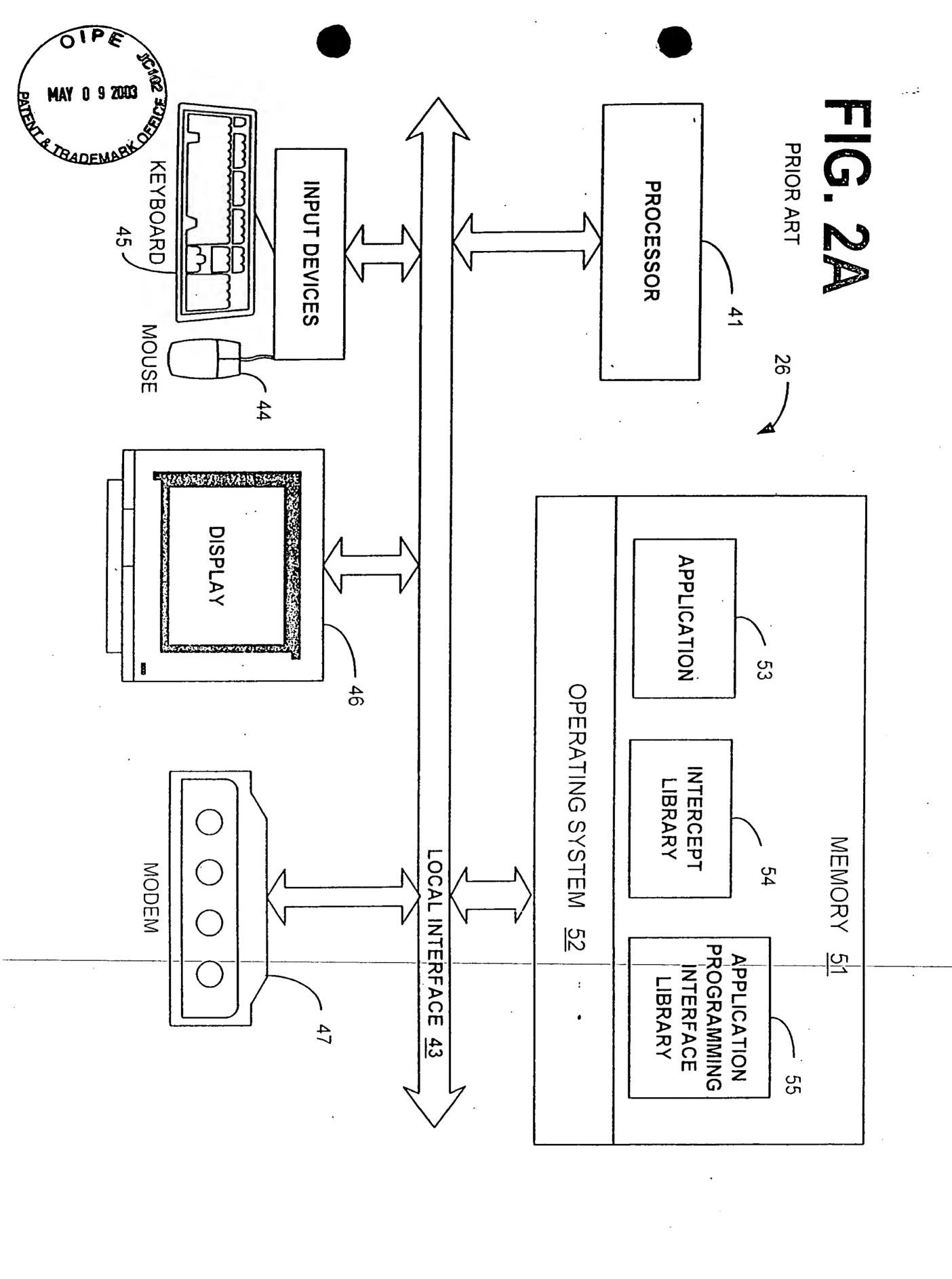
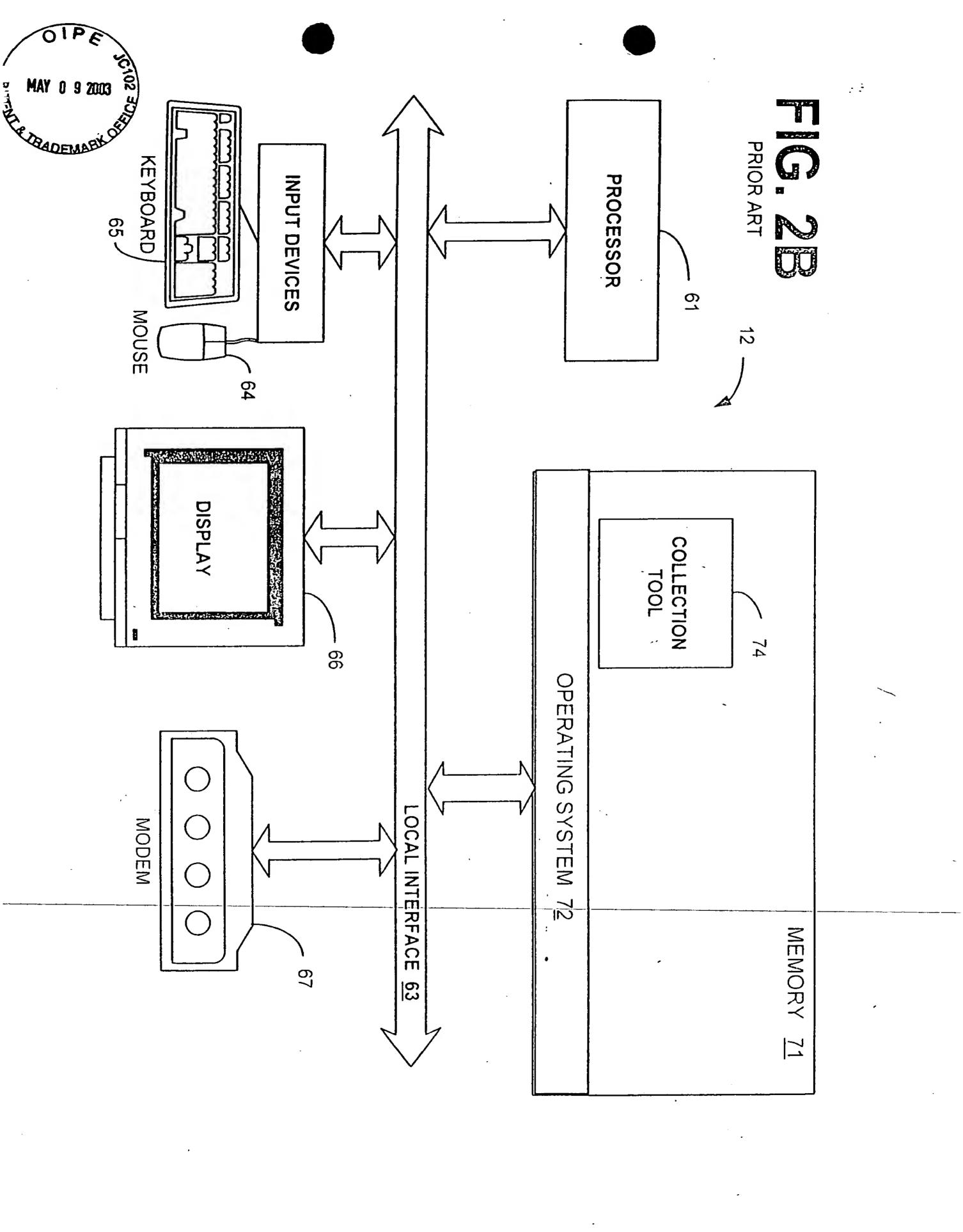
FIG. 1 MAY 0 9 2003 R. MAY OF MARK CHEEN



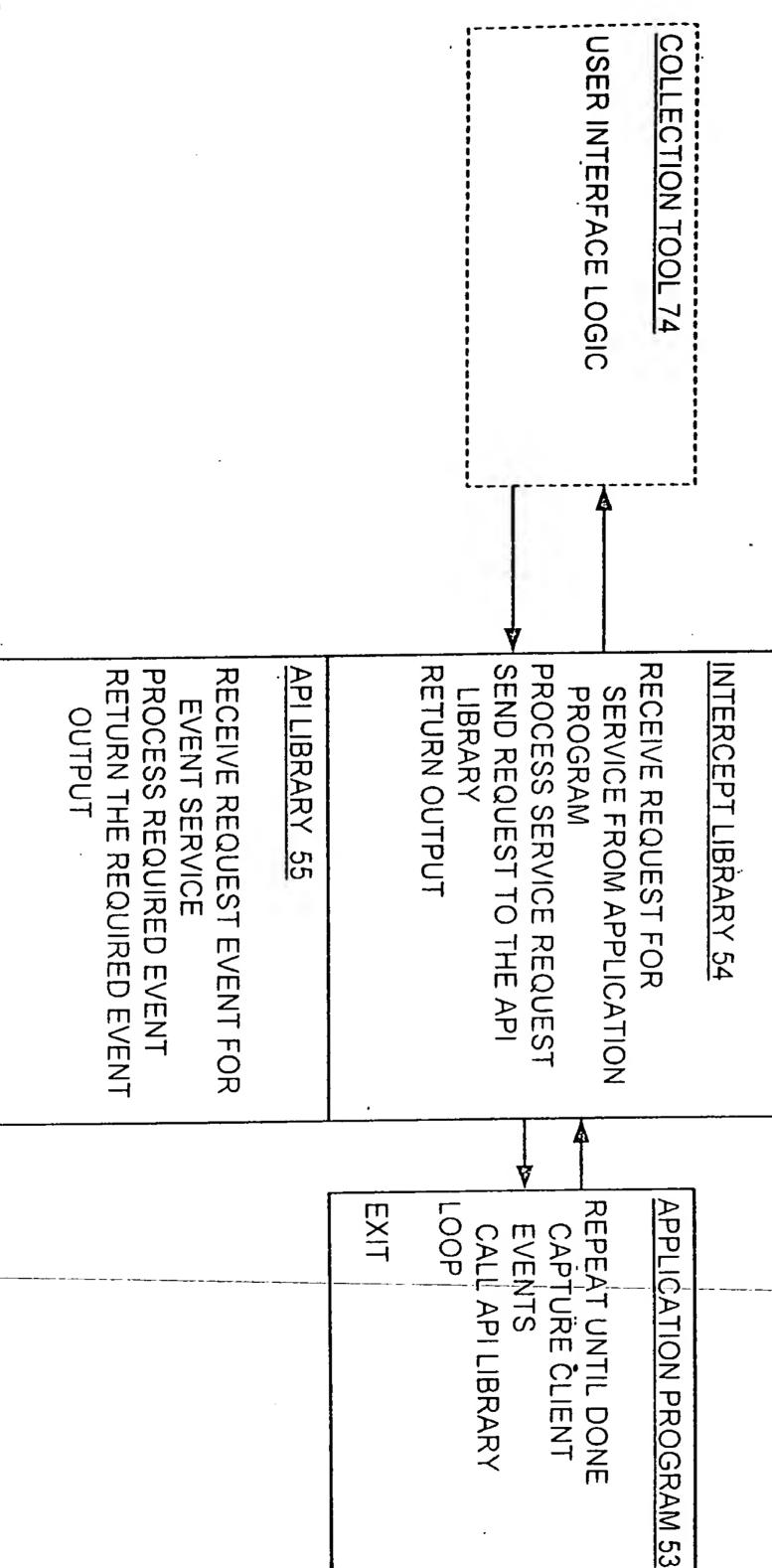






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PRIOR ART

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APPLICATION PROGRAMMING INTERFACE LIBRARY 55

RECEIVE REQUEST FOR SERVICE FROM
APPLICATION PROGRAM
IF INTERCEPTION IS ENABLED, THEN
CALL INTERCEPT MODULE

PROCESS REQUIRED EVENT
RETURN THE REQUIRED EVENT OUTPUT
RETURN TO RECEIVE NEXT REQUEST

ELSE

RECEIVE REQUEST FROM API ESTABLISH COMMUNICATION WITH

COLLECTION TOOL

COLLECTION

SIMPLE DATA

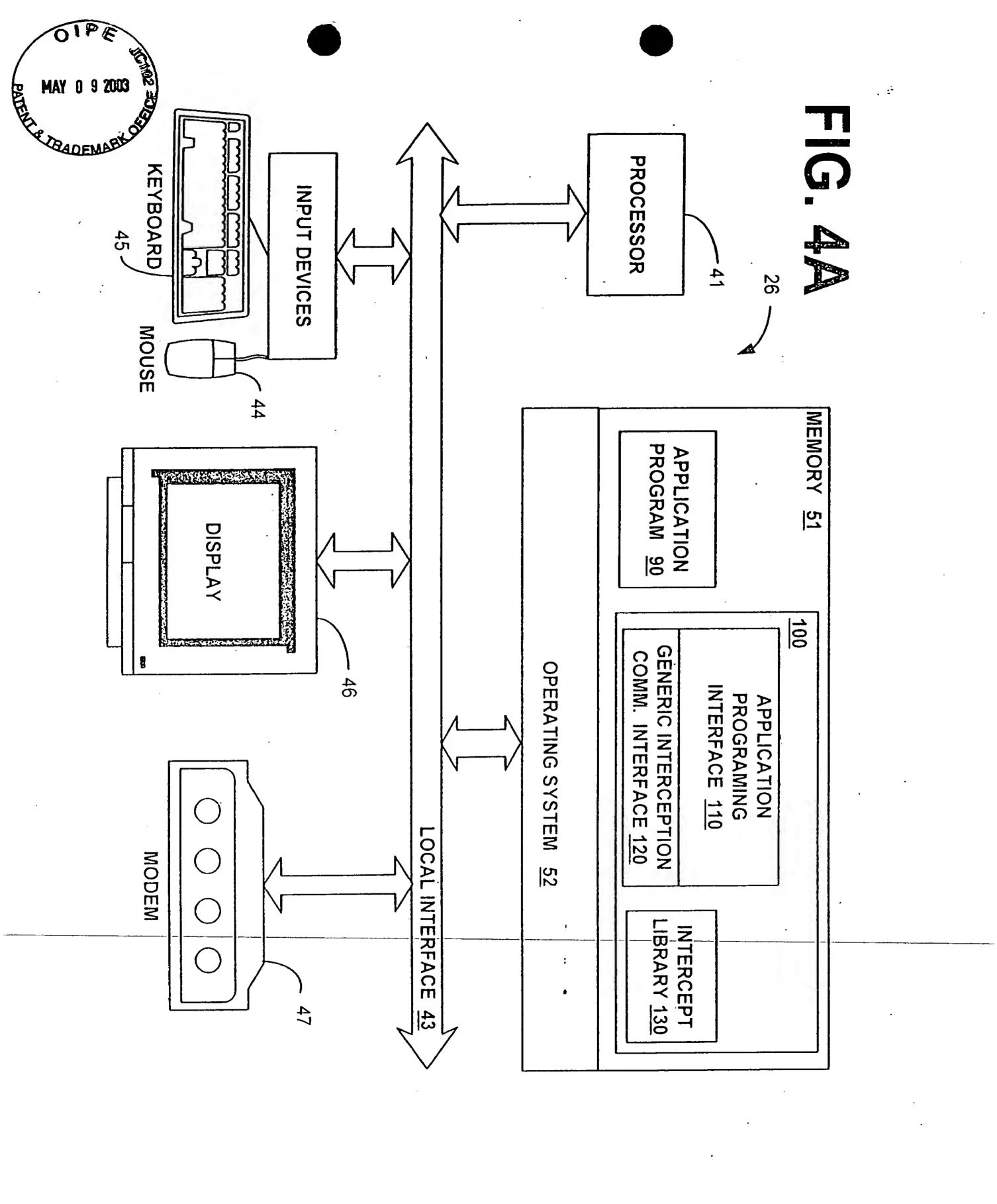
APPROPRIATE INSTRUMENTATION
TOOL
SEND EVENT DATA TO THAT

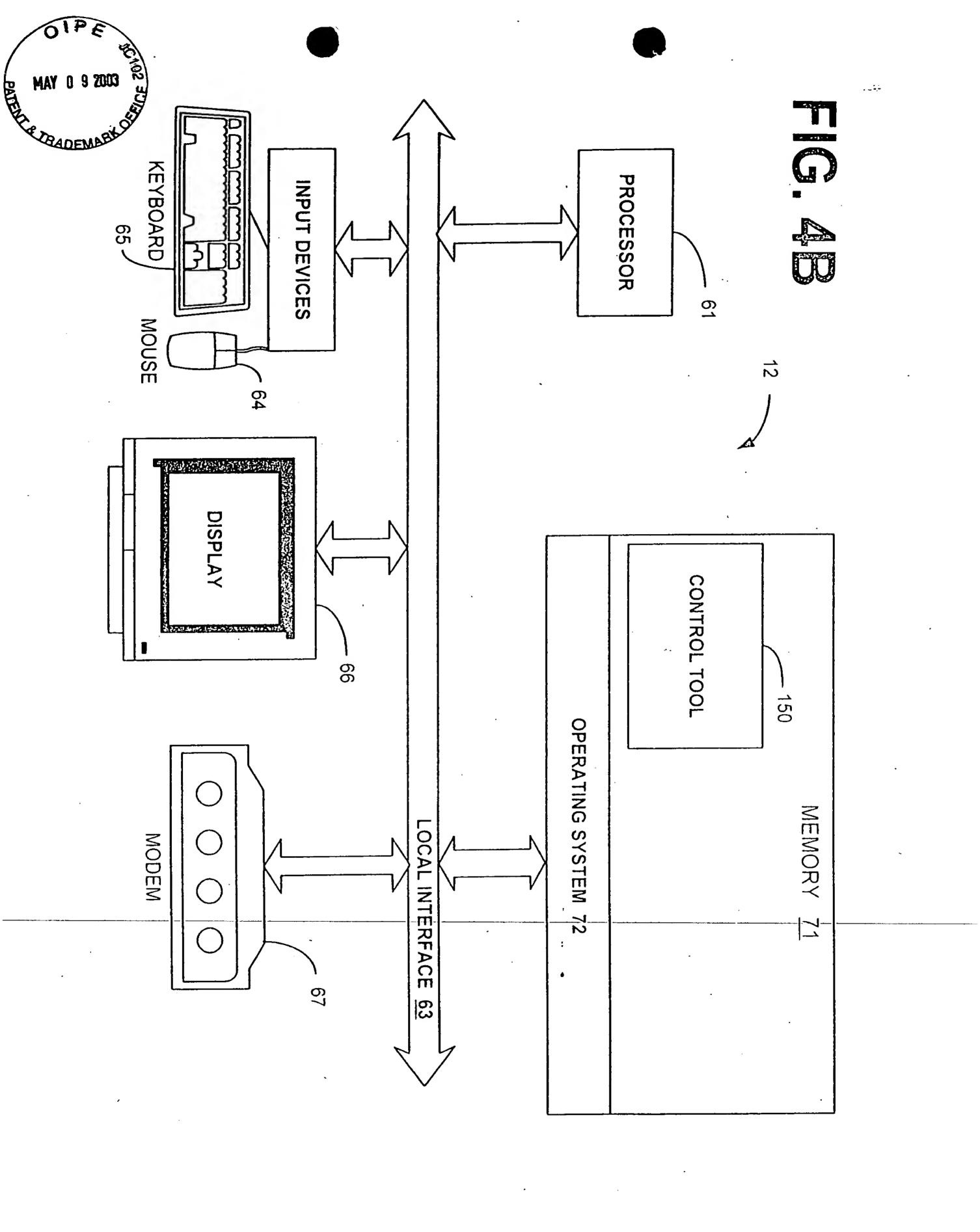
INSTRUMENTATION TOOL

IF INSTRUMENTATION TOOL REQUESTS
NORMAL API REQUIRED EVENT BE RUN
PROCESS REQUIRED EVENT OUTPUT
RETURN TO RECEIVE NEXT REQUEST

APPLICATION PROGRAM 53

REPEAT UNTIL DONE
CAPTURE CLIENT
EVENTS
CALL API LIBRARY
LOOP





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APPLICATION PROGRAM 90

LOOP REPEAT UNTIL DONE CALL API CAPTURE CLIENT EVENTS

NTERCEPT BRARY 130

REGISTER EVENTS OF INTEREST ALEVENT RECEIVING HANDLERS ESTABLISH COMMUNICATION WITH CONTROL TOOLS NITIALIZATION AND

150

COLLECTION

SIMPLE DATA

CONTRO

WAIT TO RECEIVE EVENT FROM API PERFORM EVENT DATA PROCESSING IF REQUIRED TO PROCESS EVENT PROCESS EVENT PROCESS EVENT RETURN SERVICE REQ. OUT! RETURN REPLY TO API THAT EVENT WAS HANDLED OUTPUT

EVENT WAS RETURN TO WAIT TO EVENT ELSE RETURN REPLY TO API THAT FROM API NOT RECEIVE NEXT HANDLED IH.

API 110

SEARCH FOR INTERCEPT LIB.
IF INTERCEPT LIB. FOUND
SEND INITIALIZATION EVENT
WAIT FOR REPLY Z T GE NERIC INTERCEPTION COMM. INTER.

RECEIVE SERVICE REQ. FROM APP. PROG.
IF INTERCEPTING
GENERATE EVENTS FOR SERVICE REQ.
SEND EVENTS TO INTERCEPT LIB. USING
SEND HANDLERS IN GENERIC
INTERCEPTION COMM. INTER.
WAIT FOR REPLY
IF INTERCEPT LIB. HANDLED ALL EVENTS
RETURN
ELSE
SERVICE APP. PROG. REQUEST
RETURN SERVICE REQ. OUTPUT TO APP.
PROG.

SERVICE APPL. PROG. REQUEST
RETURN SERVICE REQ. OUTPUT TO APP GENERIC INTERCEPTION (SEND HANDLERS) 120 PROG. RIC INTERCEPTION COMM NTER.

RECEIVE EVENT FROM API SEND EVENT TO REQUIRED INTERCEPTION LIB. SEND WAIT FOR REPLY FROM INTERCEPTION LIB





